SVT: current hardware status

- Have all hardware needed for Commissioning run
- System complete by ~Nov 1st

	CR	Now	Final
• Hit Finders	6	42	42
• Mergers	3	16	16
• Sequencers	2	3	12
• AMboards	4	6	24
• Hit Buffers	2	12	12
• Track Fitters	2	2	12
• Spy Controls	4	8	8
• XTFA	1	1*	1
• XTFB	1	1*	2
• XTFC	0	0	6

SVT: realistic assessment of functionality

- September 1
  - Test data will be flowing from at least three FIBs, through one complete slice of SVT (starting with three HF), to L2 interface board, then SVTD bank, as part of daily DAQ integration test.
  - Data will have correct format, bunch ID will match, but neither raw data nor configuration data will necessarily be realistic.
- November 1
  - Tracks found and fit using data from XTRP and from barrel 4, read out into SVTD and checked against trigger simulation.
  - Beam position feedback mechanism exercised, though answer not necessarily meaningful.

SVT: status of algorithm software

- Tools exist for:
  - Generation of patterns for AM and constants for TF from given detector geometry
  - Generation of patterns for AM and constants for TF from data
- Not final yet
- Still need to tie a few loose ends
  - Documentation
  - Direct access to data in offline format
  - Interface to data base
  - Etc.

SVT: status of Run Control software

- Most pieces exist but need to be better integrated.
- Configuration messages from R_C have been used to download boards used in vertical slice test.
- Currently nothing is in the hardware database.
- "Dumb" (i.e. big, redundant) file formats exist for memory contents; need to work on "smart" (compact) formats.
- Tentative plan is to use names of text files as database entries, to keep maximum simplicity and flexibility until we get some experience. Then implement real database tables once we've seen some data.

SVT: status of TRIGSIM module

- A simulation module is in place and gives reasonable results.
- We expect the underlying C code to be used both for TRIGSIM and for online diagnostics in crate CPUs.
- More work is needed on common formats for configuration data to be used for simulation and R_C initialization.
- Lot of work still needed to turn it into a trigger validation tool.

SVT: top 2 goals for the Commissioning Run

1. Tracks found and fit using data from XTRP and from barrel 4; read out into SVTD and checked against trigger simulation.

2. Beam position feedback mechanism exercised, though answer not necessarily meaningful.